

CATALYTIC COMBUSTOR WITH IMPROVED LIGHT-OFF CHARACTERISTICS

ABSTRACT OF THE DISCLOSURE

A catalytic combustor includes a plurality of channels formed by corrugated and flat strips, some of the channels being coated with a catalyst and others being uncoated. In the vicinity of the inlet end of the combustor, the boundary of each coated channel has a thermal barrier, to inhibit the flow of heat from the coated channel to an adjacent uncoated channel. Also in the vicinity of the inlet end, the coated channels may include one or more additional coated members, to enhance catalytic combustion in the light-off zone. The combustor of the present invention lights off at a relatively low temperature, and quickly reaches a stabilized and controlled operating temperature.

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